

IDAHO OIL AND GAS CONSERVATION COMMISSION

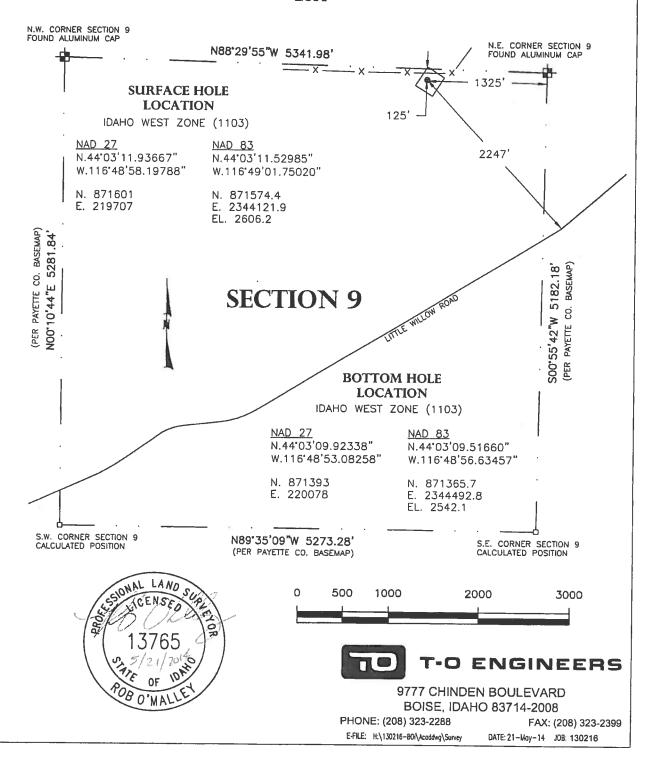
Application For Permit to Drill, Deepen or Plug Back

APPLICATION TO: Drill (\$2,000) 🗶 Deepen (\$500) 🗌 Plug Back (\$50 🔀 📑 💆
NAME OF COMPANY OR OPERATOR: Alta Mesa Services, LPDate:Date:Date:Date:Date:Date:Date:Date:Date:
Address: 15021 Katy Frwy., Suite 400
City: Houston State: TX Zip Code: 77094 Telephone: 73-530-0991
Contact Name: Ronda Louderman Email Address: rlouderman@altamesa.net 😑
DESCRIPTION OF WELL AND LEASE
Name of Lease: Kauffman Well Number: 1-9 Elevation (ground) 2,606 feet
Well Location: Section: 9 Township: 8 North Range: 4 West (or block and survey)
(give footage from Section lines): Surface Location - 1325' from East Section line, 190' from North Section
Line, Bottom Hole Location – 397' from North Section line, 931' from East Section line
Field and Reservoir (if wildcat, so state): Willow County: Payette
Distance, in miles, and direction from nearest town or post office: 5.49 miles East
Nearest distance from proposed location to property or lease line: Surface - 50' from West Lease Line; Bottom - 397' from
North Lease line Distance from proposed location to nearest drilling, completed or applied for on the same lease: N/A
Proposed depth: 5,800' Rotary or cable tools: Rotary
Planned logging tools Mud Logging only while drilling. After: Gamma Ray; Propagation Resistivity; Density, Neutron
Porosity, Electron Capture Spectroscopy; Sonic; and Percussion sidewall cores will be completed by wireline.
Approx date work will start: June 20, 2014 Number of acres in lease(s): 640
Number of wells on lease, including this well, completed in or drilling to this reservoir:1
If lease purchased with one or more wells drilled, complete the following information:
Purchased from (name)N/A
Address of above
Status of bond
Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone
and expected new producing zone) N/A
CERTIFICATE: I, the undersigned, state that I am the Regulatory Coordinator
of Alta Mesa Services, LP
(company) and that I am authorized by said company to make this application and that this application was prepared
under my supervision and direction and that the facts stated herein are true, compett and complete to the best of my
knowledge
Date: 5-23-14 Signature: Tonda (oudleman)
Permit Number:Approval Date:Approved by:
API Number: 1/- 075 - 2002.7

NOTICE: Before sending in this form, be sure that you have given all information requested. See instructions on back.

LOCATION EXHIBIT MAP OF SECTION 9

LOCATED IN A PORTION OF SECTION 9
TOWNSHIP 8 NORTH, RANGE 4 WEST, BOISE MERIDIAN
PAYETTE COUNTY, IDAHO
2014



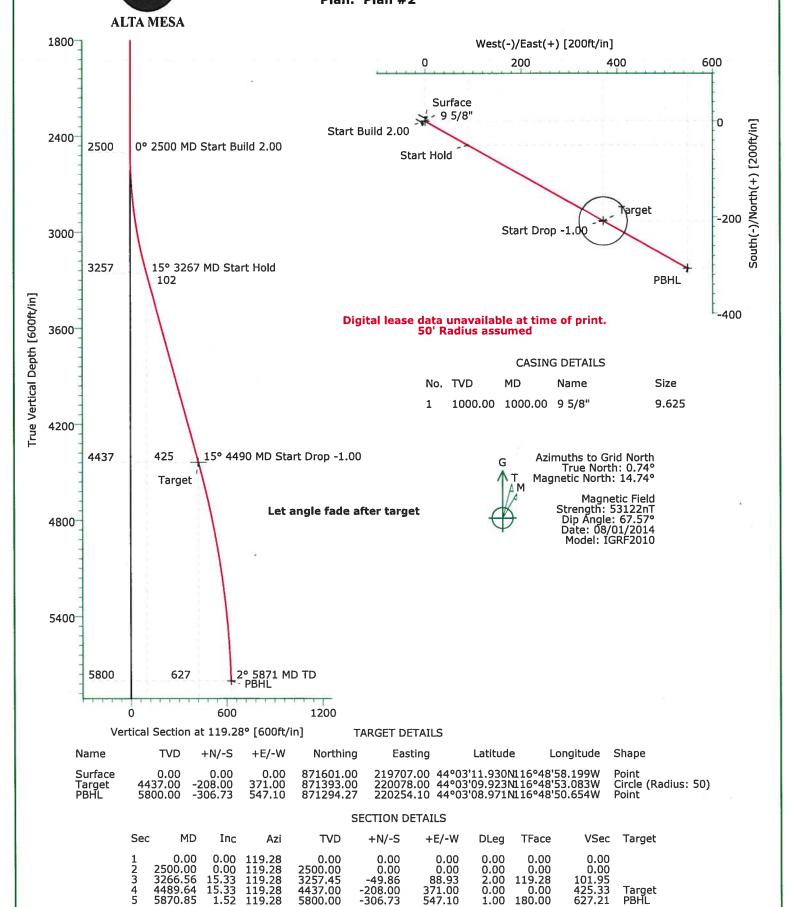
ALTA MESA

Field: Payette County, ID Site: Kauffman 1-9

Well: #1-9







-208.00

-306.73

PRECISION DIRECTIONAL SERVICES, INC.

5800.00

371.00 547.10

0.00

180.00

1.00

Target PBHL

713.435.6250

4489.64

5870.85

5

Da te: 05/22/2014

Plan: Plan #2 (#1-9/Original Hole)

Created By: Lance Rosenblad

Precision Directional Services, Inc. Planning Report

Field: Payette County, ID		ection (VS) Refer lan:	ference: ence:	2606'GL+				
Map System: US State Plane Coordinate System 1927 Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level		Map Zone: Coordinate Sy Geomagnetic N		Idaho, W Well Ce IGRF20		one		
Site: Kauffman 1-9								
	71601.00 ft 19707.00 ft	Latitude: Longitude: North Referen Grid Converg	ice:	48 58	.930 N .199 W Grid 0.74 deg	ı		· · · · · · · · · · · · · · · · · · ·
Well: #1-9		Slot Name:						
	71601.00 ft 19707.00 ft	Latitude: Longitude:	44 116		.930 N .199 W			
Magnetic Data: 08/01/2014 Field Strength: 53122 nT	2618.00 ft /-S	Drilled From: Tie-on Depth: Above System Declination: Mag Dip Angle +E/-W ft	Datum:	Mean So	0.00 ft ea Level 4.00 deg 7.57 deg			
0.00 0.		0.00		119.28				
Plan: Plan #2 p2 for datum conversion Principal: No		Date Compose Version: Tied-to:	ed:	05/21/20 1 From St				
Plan Section Information	,		U					
MD Incl Azim TVD +N/-S ft deg deg ft ft	+E/-W ft	DLS I deg/100ft d		Turn leg/100ft	TFO deg	Target		
0.00 0.00 119.28 0.00 0.0 2500.00 0.00 119.28 2500.00 0.0 3266.56 15.33 119.28 3257.45 -49.8 4489.64 15.33 119.28 4437.00 -208.0 5870.85 1.52 119.28 5800.00 -306.7	0.00 88.93 371.00	0.00 0.00 2.00 0.00	0.00 0.00 2.00 0.00 -1.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 119.28 0.00 180.00	Target PBHL		
Survey	1							
MD Incl Azim TVD +N/-S ft deg deg ft ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100f	Tool/Co t	mment	
2500.00 0.00 119.28 2500.00 0.0 2600.00 2.00 119.28 2599.98 -0.8 2700.00 4.00 119.28 2699.84 -3.4 2800.00 6.00 119.28 2799.45 -7.6 2900.00 8.00 119.28 2898.70 -13.6	1.52 6.09 13.69	0.00 1.75 6.98 15.69 27.88	0.00 2.00 2.00 2.00 2.00	0.00 2.00 2.00 2.00 2.00	0.00 0.00 0.00 0.00 0.00			
3000.00 10.00 119.28 2997.47 -21.2 3100.00 12.00 119.28 3095.62 -30.6 3200.00 14.00 119.28 3193.06 -41.6 3266.56 15.33 119.28 3257.45 -49.8 3300.00 15.33 119.28 3289.70 -54.1	54.61 74.23 88.93	43.52 62.60 85.10 101.95 110.79	2.00 2.00 2.00 2.00 0.00	2.00 2.00 2.00 2.00 0.00	0.00 0.00 0.00 0.00 0.00			
3400.00 15.33 119.28 3386.14 -67.1 3500.00 15.33 119.28 3482.58 -80.0 3600.00 15.33 119.28 3579.02 -92.9 3700.00 15.33 119.28 3675.46 -105.9 3800.00 15.33 119.28 3771.90 -118.8	142.76 7 165.83 0 188.89	137.23 163.67 190.11 216.55 242.99	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00			
	6 235.01	269.43	0.00	0.00	0.00			

Precision Directional Services, Inc. Planning Report

Company: ALTA MESA Payette County, ID Field:

Date: 05/22/2014 Time: 11:35:07 Co-ordinate(NE) Reference: Well: #1-9, Grid North

Page: 2

Site: Kauffman 1-9 #1-9 Original Hole Well: Wellpath:

Vertical (TVD) Reference: 2606'GL+12'KB 2618.0 Well (0.00N,0.00E,119.28Azi) Plan #2 Section (VS) Reference: Plan:

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
4000.00	15.33	119.28	3964.78	-144.69	258.08	295.87	0.00	0.00	0.00	"
4100.00	15.33	119.28	4061.23	-157.62	281.14	322.31	0.00	0.00	0.00	
4200.00	15.33	119.28	4157.67	-170.55	304.20	348.75	0.00	0.00	0.00	
4300.00	15.33	119.28	4254.11	-183.48	327.26	375.19	0.00	0.00	0.00	
4400.00	15.33	119.28	4350.55	-196.41	350.33	401.63	0.00	0.00	0.00	
4489.64	15.33	119.28	4437.00	-208.00	371.00	425.33	0.00	0.00	0.00	Target
4500.00	15.23	119.28	4446.99	-209.34	373.38	428.06	1.00	-1.00	0.00	-
4600.00	14.23	119.28	4543.71	-221.77	395.56	453.48	1.00	-1.00	0.00	
4700.00	13.23	119.28	4640.85	-233.37	416.26	477.21	1.00	-1.00	0.00	
4800.00	12.23	119.28	4738.39	-244.15	435.47	499.24	1.00	-1.00	0.00	
4900.00	11.23	119.28	4836.30	-254.09	453.20	519.57	1.00	-1.00	0.00	
5000.00	10.23	119.28	4934.55	-263.19	469.44	538.18	1.00	-1.00	0.00	
5100.00	9.23	119.28	5033.11	-271.45	484.18	555.08	1.00	-1.00	0.00	
5200.00	8.23	119.28	5131.95	-278.87	497.41	570.25	1.00	-1.00	0.00	
5300.00	7.23	119.28	5231.05	-285.45	509.14	583.70	1.00	-1.00	0.00	
5400.00	6.23	119.28	5330.36	-291.18	519.36	595.41	1.00	-1.00	0.00	
5500.00	5.23	119.28	5429.85	-296.06	528.06	605.39	1.00	-1.00	0.00	
5600.00	4.23	119.28	5529.51	-300.09	535.25	613.64	1.00	-1.00	0.00	
5700.00	3.23	119.28	5629.30	-303.27	540.92	620.14	1.00	-1.00	0.00	
5800.00	2.23	119.28	5729.19	-305.59	545.08	624.90	1.00	-1.00	0.00	
5870.85	1.52	119.28	5800.00	-306.73	547.10	627.21	1.00	-1.00	0.00	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft		- Latitude> Min Sec	< Longitude> Deg Min Sec
Surface			0.00	0.00	0.00	871601.00	219707.00	44	3 11.930 N	116 48 58.199 W
Target -Circle (Radius			4437.00	-208.00	371.00	871393.00	220078.00	44	3 9.923 N	116 48 53.083 W
-Plan hit target PBHL -Plan hit target			5800.00	-306.73	547.10	871294.27	220254.10	44	3 8.971 N	116 48 50.654 W

Casing Points

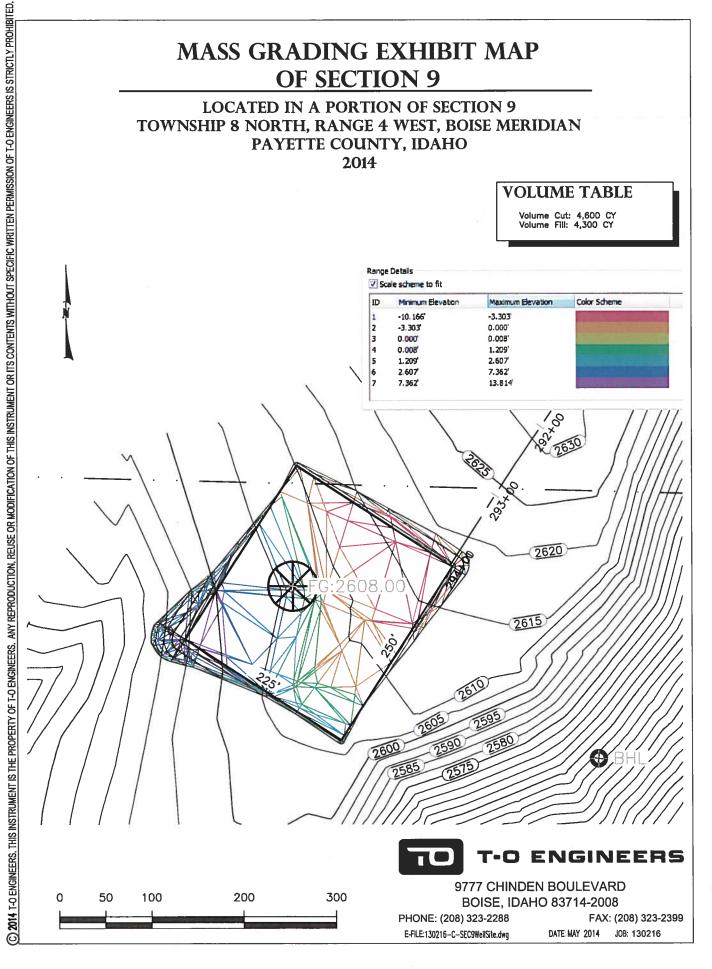
MD ft	TVD ft	Diameter in	Hole Size in	Name	
1000.00	1000.00	9.625	12.250	9 5/8"	

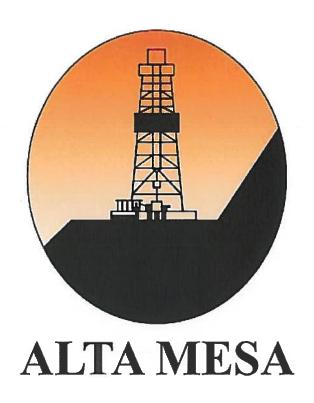
MASS GRADING EXHIBIT MAP **OF SECTION 9**

LOCATED IN A PORTION OF SECTION 9 TOWNSHIP 8 NORTH, RANGE 4 WEST, BOISE MERIDIAN PAYETTE COUNTY, IDAHO 2014



Volume Cut: 4,600 CY Volume Fill: 4,300 CY





ALTA MESA SERVICES, LP

IDL Permit Supplement

Kaufman 1-9

Payette County, ID

May 22, 2014

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IDL Permit Supplement AFE #: TBD

Kaufman 1-9 Willow

Payette County, ID May 22, 2014

1 Background Information

Objective: The objective of this operation is to drill a vertical well to 5,800'TVD/5,871'MD.

AFE #:

TBD

Well Type: Vertical

Well Name: Kaufman 1-9

Field:

Willow

County:

Payette

State: Section: Idaho 9

Township:

Range:

8N 4W

Mapping Reference:

System:

NAD83 / NAD27

Zone:

UTM11

SPCS:

Idaho West Zone 1103

Mag Dec:

14.15° (01-Jul-2013)

Grid Conv.: -0.75113 °

Total Corr.: 14.90113°

Coordinates:

Surface Location:

NAD83

Lat.:

N 44° 03' 11.52985"

Long.:

W 116° 49' 01.75020"

SPCS:

2344121.9 ft. E

871574.4 ft. N

NAD27

SPCS:

219707 ft. E

871601 ft. N

Bottom Hole Location:

NAD83

Lat.:

44° 03' 09.51660"

Long.:

116° 48' 56.63457"

SPCS:

2344492.8 ft. E

871365.7 W

NAD27

SPCS:

220078 ft. E

871393 ft. N

Elevation:

GL:

2,606 ft.

RKB: 2,618 ft.

Planned TD:

MD:

5,871.0 ft.

TVD:

5,800.0 ft.

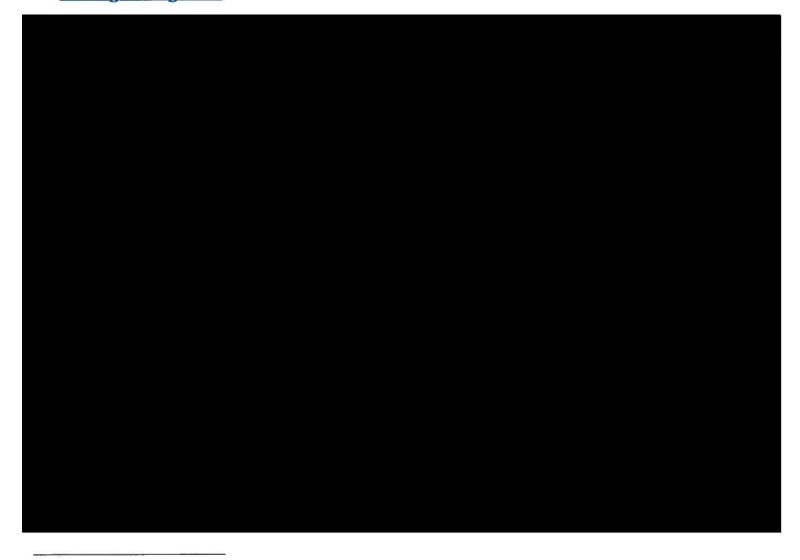
Contractor:

Paul Graham Drilling

Rig:

#7

2 **Geologic Prognosis**



3 Site Preparation

3.1 Access Roads

The proposed surface location is to be accessed by an existing farm road that supports heavy truck traffic, approximately 1 mile of improved road over an existing farm path, and 120' of new roadway.

Kaufman 1-9

Willow

3.2 Erosion Control

Appropriate grading, mechanical stabilization (rip-rap or hay bales), chemical stabilization (soil cement), and silt fencing will be used to prevent soil erosion. All cut and fill slopes are designed with a minimum 2:1 grade to minimize runoff erosion and ensure mechanical stability. See attached engineering drawings.

3.3 Cellars

An 8' deep round cellar box will be installed after the conductor is installed per the relevant section below.

3.4 Pit System

A closed-loop circulating system will be used for this well from spud. Zero discharge practices will be implemented, and all cuttings and waste fluid will be solidified and disposed of at an approved facility. A third party oilfield waste management contractor will provide waste management and tracking services.

3.5 Sump

The location will have a 2' deep trench on downhill sides where the spoil from that trench will be used to construct an earthen berm around the location. The trench will act as a sump to collect rain and wash water for controlled release or appropriate disposal as required.

4 Well Construction

4.1 Casing and Cementing Program

Well Interval	Bit Size	Casing Size, Grade and Weight	Casing Setting Depth	Top of Cement	Cement Type and Volume		
Conductor	17-1/2"	13-3/8" 54.5 ppf K-55 LTC	120'	Surface	Class "A" ~140 sxs 100% excess		
Surface	12-1/4"	9-5/8" 40 ppf K-55 LTC	1,000'	Surface	Lead: 100 sxs TCI Beaded Lite @ 10.4 ppg, 100% excess Tail: 50 sxs Class "H" @ 14.8 ppg		
Production	8-3/4"	5-1/2" 17 ppf K-55 LTC	5,500'	Surface	Lead: 500 sxs TCI Lite @ 12.7 ppg Tail: 200 sxs Gas Seal @ 16.0 ppg		

TCI Beaded Lite: An engineered light weight slurry with excellent compressive strength development the slurry exhibits low fluid loss, thixotropic behavior, and has zero free water.

TCI-Lite: A light weight gel extended slurry that develops excellent compressive strength within 24 hours.

Gas-Seal: A premium production casing slurry that has a gas migration control additive for providing an exceptional cement bond to formation and casing. The slurry also contains clay control with low fluid loss for added gas migration inhibition and slurry stability.

4.2 Proposed Wellbore Schematic

Alta Mesa Kaufman 1-9 Payette Co., Idaho

Proposed Wellbore Schematic



Well Name & No.: Kaufman 1-9	Field: Wildcat
County or Parish: Payette	State: Idaho
Total Depth (MD): 5,871'	(TVD): 5,800'

4.3 Blow-Out Preventers

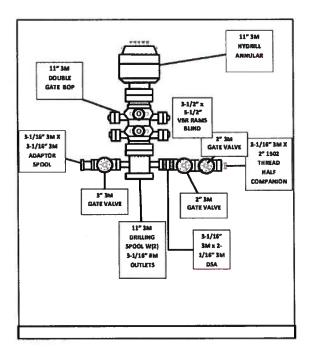
4.3.1 **BOP Hardware Configuration**

BOP Stack configuration includes an annular preventer and double ram preventers. The top most ram preventer will be fitted with variable ram blocks, the lower ram preventer will be fitted with blind ram blocks. A full-opening safety valve, inside BOP, and functioning wrench – specific to the pipe in use and only those specific to the pipe in use – are to be kept on the rig floor with easy access at all times.

4.3.2 **BOP Testing**

Test annular, rams, choke manifold, FOSV, and IBOP when BOP is first nippled up on casing head. Low-pressure test to 250psi and high-pressure test to 3,000psi (100% of 3M wellhead), except for annular. Test annular preventer to 2,100psi (70% of 3,000psi rating). Test the kelly hose and standpipe back to pump isolation valves to 200 psi above pop off setting or minimum of 3,000 psi. All tests must hold for five minutes. Retest specific component each time a seal is broken. Work BOP's and flush choke lines each trip. Tighten BOP and wellhead bolts every 3 days. Non-ported float valves to be used in BHA after surface casing set.

During drilling and completion operations, the ram-type blow-out preventer shall be function tested by closing on the drill pipe once every seven (7) days. Independently powered accumulators or accumulators and pumps shall maintain a pressure capacity reserve at all times to provide for repeated operation of hydraulic preventers. All tests may be conducted using a test plug. Tests shall be recorded by charts, if required by the Supervisor.



4.4 13-3/8" Conductor

4.4.1 **Drilling**

The conductor will be installed via auger and grout unless surface conditions dictate driving.

4.4.2 Casing

Set Depth (ft.)	Top (RTE)	Size (in)	Weight (#/ft)	Grade	Burst (psi)	Collapse (psi)	Centralizers
120'	GL	13-3/8	54.5	K-55	2,730	1,130	None

4.5 <u>12-1/4" Surface Hole</u>

4.5.1 **Drilling**

4.5.1.1 Directional Objective

The surface hole will be drilled vertically to 1,000' MD/TVD.

4.5.1.2 Mud System

The surface hole will be drilled using fresh water based mud. Additives will be included for inhibition and also to build high-viscosity sweeps as necessary.

Measured Depth, ft.	Mud Density, ppg	Funnel Viscosity, cP	Yield Point, lb/100ft ²	API Fluid Loss, ml	pН	LGS %
120 – 1,000°	8.6	25-36	8-12	N/C	7.0-8.0	4 - 7

4.5.2 **Open Hole Evaluation**

No open-hole evaluation will be conducted in this interval

4.5.3 Casing

The surface casing is to be set at a depth that isolates problematic formations and usable water strata.

	Top (RTE)		Weight (#/ft)	Grade	Conn	Internal Diameter		Collapse	Tension
1,000'	GL	9-5/8"	40.0	K-55	LTC	8.835"	3,950 psi	2,570 psi	561 kips

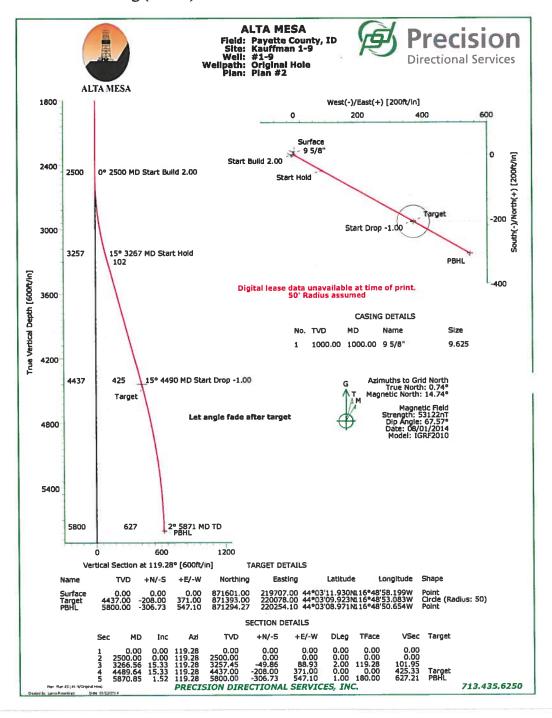
4.6 8-3/4" Production Hole

The 8-3/4" hole will be drilled directionally to \sim 5,800'TVD/5,871'MD. Kickoff point will be \sim 2,500' TVD/MD with a build rate of 2°/100 feet to an angle of 15°. At \sim 4,490'MD the well will be gradually dropped at 1°/100 feet to total depth. Angle at total depth will be \sim 2°.

4.6.1 **Drilling**

4.6.1.1 Directional Objective

The 8-3/4" production hole will be drilled directionally to 5,800' TVD/ 5,871'MD. Surveys will be obtained using a measurement while drilling (MWD) tool.



4.6.1.2 Mud System

The production hole interval will be drilled with an invert emulsion mud system.

Measured Depth, ft.	Mud Density,	Funnel Viscosity, cP	and the state of t	HTHP Fluid Loss, ml	ES	LGS %
1,000 - 5,871'	9.2 -9.8	36 - 45	6 - 10	<10.0	>600	< 5%

An invert emulsion drilling fluid will be used from below surface casing to total depth. The production casing will be cemented to surface thus, no drilling fluid will be left in the hole. Drill cuttings waste generated will be managed on location by a third party oilfield waste management company who will supervise the solidification, tracking and transportation to an approved waste disposal site of all oilfield waste generated while drilling. A zero-discharge closed loop sysem will be employed.

4.6.2 **Logging Program**

While Drilling: Mud logging only

Coring: None

Wireline: After reaching TD, and conditioning the hole, wireline evaluation will be conducted as follows:

- Gamma Ray
- Propagation Resistivity
- Density
- Neutron Porosity
- Electron Capture Spectroscopy
- Sonic
- Percussion sidewall cores

4.6.3 **Production Casing**

The production casing string is designed to be run to total depth and withstand the expected wellbore pressures.

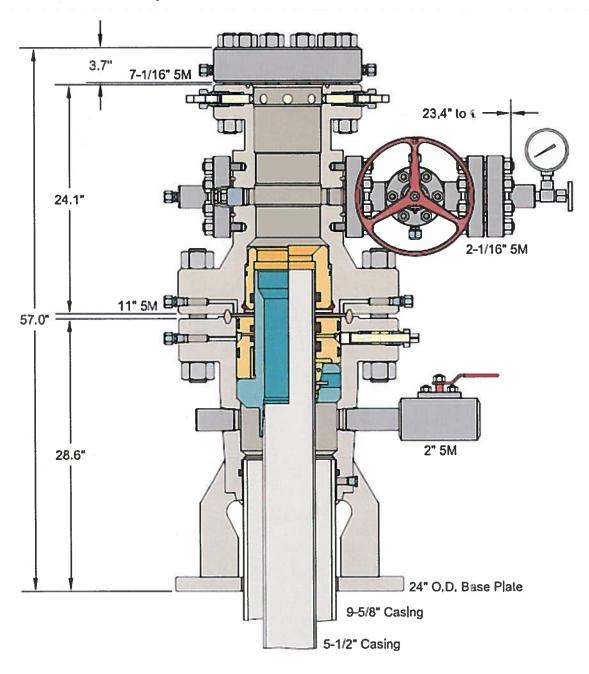
Set Depth ft.			Weight (#/ft)	Grade	Conn.	Internal Diameter		Collapse	Tension
5,871'	GL	5-1/2"	17	K-55	LTC	4.892"	4,910 psi	5,320 psi	272 kips

5 <u>Completion</u>

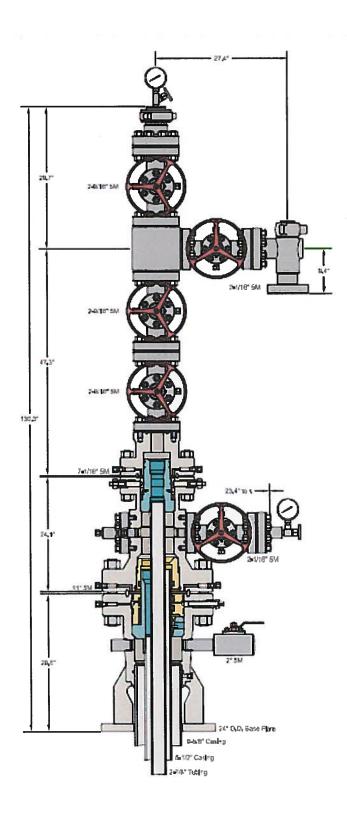
Method of completion will be determined subsequent to review of open-hole log data and cased hole cement bond logs (CBL).

6 Wellhead

6.1 Surface Wellhead System



6.2 Complete Wellhead System with Tree



7 Reclamation

Reclamation will be conducted in accordance with IDAPA 20.07.02.325. To achieve those requirements, Alta Mesa Services, L.P. proposes to address reclamation through a multistep process which is outlined below. As provided for in IDAPA 20.07.02.325.08, Alta Mesa Services, L.P. may enter into a Surface Use Agreement with the landowner the terms of which will ensure that the site is left in a stable, non-eroding condition as required.

- 1. Re-establish slope stability, surface stability, and desired topographic diversity.
 - a. Reconstruct the landscape to the approximate original contour unless otherwise provided for in the Surface Use Agreement
 - b. Maximize geomorphic stability and topographic diversity of the reclaimed topography.
 - c. Eliminate high walls, cut slopes, and/or topographic depressions on site, unless otherwise approved.
 - d. Minimize sheet and rill erosion on the reclaimed area. Eliminate mass wasting, head cutting, large rills or gullies, down cutting in drainages, or overall slope instability on the reclaimed area.
- 2. Maintain the integrity of the topsoil and subsoil (where appropriate and not otherwise dictated by the Surface Use Agreement)
 - a. Identify salvaged topsoil and subsoil.
 - b. Segregation of salvaged soils to protect those materials from erosion, degradation, and contamination.
 - c. Incorporate stored soil material into the disturbed landscape to the extent practicable.
 - d. Stockpiled soils to be stored beyond one growing season shall be stabilized with appropriate vegetation
 - e. Record location and approximate volumes of stockpiles.
- 3. Prepare site for revegetation upon completion of well activities plugging/abandonment.
 - a. Redistribute soil materials in a manner similar to the original vertical profile.
 - b. Reduce compaction to an appropriate depth (generally below the root zone) prior to redistribution of topsoil, to accommodate appropriate site-specific plant species.
 - c. Provide suitable conditions to support the long term establishment and viability of the desired plant community.
 - d. Protect seed and seedling establishment (e.g. erosion control matting, mulching, hydro-seeding, surface roughening, fencing, etc. to be determined based upon site specific conditions
- 4. Establish a desired self-perpetuating native plant community based upon region specific guidance available from NRCS
 - a. Establish species composition, diversity, structure, and total ground cover appropriate for the desired plant community
 - b. Select genetically appropriate and locally adapted native plant materials based on the site characteristics and setting.
 - i. Seed mixtures shall be selected based on soil type, site conditions and intended final use
 - ii. Seed shall not be used later than one year after the test date that appears on the label.
 - iii. The bags of seed shall be clearly labeled indicating test date, weed percentage or % Pure Live Seed (PLS), viability or germination percentage, and inert material

- c. Select non-native plants only as a short term and non-persistent alternative to native plant materials. Ensure the non-natives are designed to aid in the re-establishment of native plant communities. Revegetate in accordance with best practices described below:
 - i. Re-spread topsoil to a minimum depth of 4 inches.
 - ii. Prepare a friable but firm and weed free seedbed that is not compacted by prior construction work.
 - iii. Appropriate firmness can be estimated when a person leaves about a ¼ inch deep footprint.
 - iv. Remove rocks, twigs, concrete, foreign material and clods over 2 inches that can't be broken down.
 - v. Soil moisture content shall be at least 30% soil capacity (estimated). Do not seed into undesirable moisture conditions (e.g. "dust" or "mud").
- d. Plant communities shall be evaluated annually for two years to ensure revegetation success as determined by IDAPA 20.07.02.325
 - i. Repair and reseed areas that have erosion damage as necessary.
 - ii. If a stand has less than 70% ground cover after two years, re-evaluate the choice of plant materials, methods and available light and moisture. Re-establish the stand with modifications based on the evaluation
- 5. Reestablish initial visual composition
 - a. Ensure the reclaimed landscape features conform to the prior conditions of the site.



101 MORGAN KEEGAN DRIVE, SUITE A | LITTLE ROCK, AR 72202 P.O. BOX 251618 | LITTLE ROCK, AR 72225-1618 TEL: (501) 603-9000 | FAX: (501) 603-0556 | PPGMRLAW.COM | PLLC

JOHN F. PEISERICH JOHN @ PPGMRLAW.COM

July 19, 2013

Mr. Bobby Johnson Idaho Department of Lands Idaho Oil and Gas Conservation Commission 300 N. 6th Street Suite 103 Boise, ID 83702

> RE: Exceptional Location Letter Application Section 9, Township 8 North, Range 4 West Willow Field, Payette County, Idaho

Mr. Johnson,

Please allow this letter to serve as Alta Mesa Services, LP's application for an exceptional location for its well proposed in Section 9, Township 8 North, Range 4 West in the Willow Field located in Payette County, Idaho. The well permit application is being transmitted concurrently for your consideration and Alta Mesa Services, LP ("Applicant") requests that this letter application be attached to the well permit as an additional submittal.

In accordance with IDAPA 20.07.02.330.04, the Applicant submits with this application a plat which provides the following information:

- a. The location at which an oil or gas well could be drilled in compliance with Subsections 330.01 or 330.02 or the applicable order; (demonstrated as the nearest potential well location within Section 4) b. The location at which the applicant requests permission to drill; and (demonstrated by the Proposed Well Location)
- c. The location at which oil or gas wells have been drilled or could be drilled, in agreement with Subsection 330.01 or 330.02 or the applicable order, directly or diagonally offsetting the proposed exception. (In Section 10, the ML Investments No.1-10 is indicated in the north-central portion of the section. Also in Section 10, the ML Investments No. 2-10 is indicated in the northeast portion of the section. Each of these locations are well beyond the expected potential drainage zone of the proposed wells. The drainage zone is indicated on the attached plat and potential locations are demonstrated by the 1,660 foot legal location boxes shown within each section.)

It should be noted that AM Idaho, LLC is the only working interest owner in the offset sections and thus would be operator in each of those sections.

The Applicant, Alta Mesa Services, LP, requests the approval of an exceptional location due to surface and reservoir characteristics related to the target formation. The proposed surface hole and bottom hole locations are the most protective of the environment; are the most prospective for oil and/or gas; and are necessary to prevent waste and avoid stranding of resources.

The target formation presents the optimal drilling target at the location selected by the Applicant. Specifically, three dimensional seismic survey data has identified the target, identified for discussion purposes as the "Willow Sand", as time equivalent to the Willow Sand found in the ML Investment #1-10 well. Seismic data of the target indicates high amplitude with offset, i.e. a likely indicator of high-hydrocarbon saturation.

the bounda

Geologically, the selected target is believed to be the best potential location within the reservoir with the greatest chance that the target will be prospective for oil and/or gas. Selection of this location will reduce the number of wells necessary to fully develop the prospect by selecting the target with the greatest drainage potential which will prevent economic waste; prevent drilling of additional otherwise unnecessary wells which causes additional surface impacts; and avoid creating areas within the reservoir that are incapable of being drained.

For the reasons stated above, Alta Mesa Services, LP respectfully requests the approval of this exceptional location. If you have further questions, please contact me.

Sincerely.

John F. Peiserich



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JOHN F. PEISERICH JOHN @ PPGMRLAW.COM

July 19, 2013

Mr. Bobby Johnson Idaho Department of Lands Idaho Oil and Gas Conservation Commission 300 N. 6th Street, Suite 103 Boise, ID 83702

> RE: Direction Deviation Letter Application Section 9, Township 8 North, Range 4 West Willow Field, Payette County, Idaho

Mr. Johnson,

Please allow this letter to serve as Alta Mesa Services, LP's application for a deviation from vertical for its well proposed in Section 9, Township 8 North, Range 4 West in the Willow Field located in Payette County, Idaho. The well permit application is being transmitted concurrently for your consideration and Alta Mesa Services, LP ("Applicant") requests that this letter application be attached to the well permit as an additional submittal. The well permit application previously submitted includes the information regarding the surface and bottom hole locations along with the planned well path from the directional contractor.

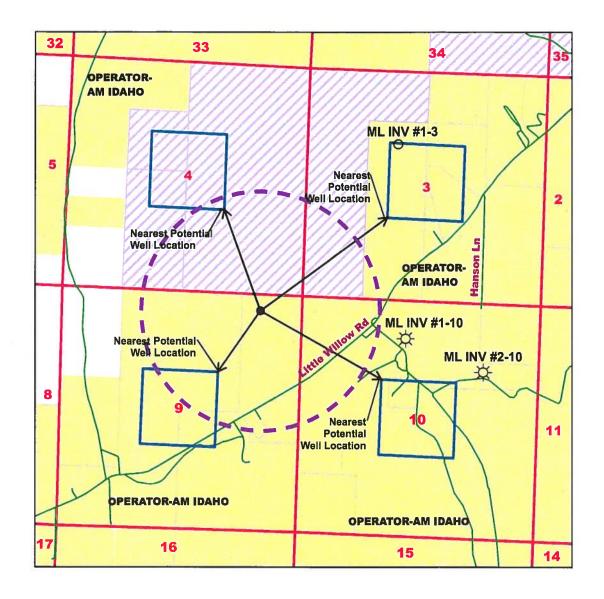
The proposed deviation is requested due to the topographic conditions present at the surface immediately above the bottom hole location. The topography is extremely rugged, composed of a steep hillside that would require extensive excavation that, even with such excavation, may not provide a safe working environment. In additional to ensuring a safe working environment, the Applicant also seeks to minimize the surface impacts by reducing amount of excavating required.

It should be noted that AM Idaho, LLC is the only working interest owner in the offset sections and thus would be operator in each of those sections. As such, no notice to the offset operator is provided.

If you have any questions regarding this application for deviation from vertical, please contact me.

Sincerely,

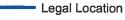
John Peiserich



Kauffman 1-9

Located in Section 9, T8N R4W, BM, Payette County, ID 05/28/14

Legend



Anticipated Well Drainage Zone (1 Mile Diameter Circle)

Section Lines

Roadways

Property Boundary

AM Idaho

BLM owns mineral rights only

Proposed Bottom Hole Well Location



1 inch equals 2,000 feet